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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/299.383 04/27/99 BOWERS

J 9711028

EXAMINER

MM92/0612

LAW OFFICES OF JOHN D GUGLIOTTA
137 SOUTH MAIN STREET
SUITE 202
AKRON OH 44308

PATEL, H

ART UNIT

PAPER NUMBER

2855

DATE MAILED:
06/12/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

09/299,383

Applicant(s)

BOWERS, JAMES R.

Examiner

Harshad Patel

Art Unit

2855

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 12 March 2001.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 4/27/99 is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☐ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 18) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other: _____

Drawings

1. This application has been filed with informal drawings, which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.
2. The drawings are objected to because as listed on page 5, numerals 24 and 35 are not shown in any figures. Correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
4. Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1: At line 11, "said static pressure sensing Pitot tube array" lacks antecedent basis.

Claim 3: At line 7, it is unclear as to what "pitot tube" is the applicant referring to as there is an array of the total pressure sensing pitot tube and the static pressure sensing pitot tube.

Claim 7: The claim does not have any meets and bounds because the language "of the type" goes from a broad to a specific recitation. Furthermore, the preamble does not agree with the preamble of the claim on which it depends. At lines 4, 6, 10 and 13, the applicant refers to "a plurality of gas flow sensing element modules" which is unclear as to whether they are the same modules or different ones. At line 7, "said inlets and outlets of said flow sensing element modules" lack antecedent basis. At line 8, "the upper and lower

Art Unit: 2855

edges of said inlets and outlets” lack antecedent basis. At line “the plenum or duct” lack antecedent basis.

Claim 8: The claim does not have any meets and bounds and the preamble does not agree with the preamble of the claim it depends on. At lines 5-6, “said total pressure manifolds”, “said static pressure Pitot tubes” and “said gas flow sensing element modules” lacks antecedent basis. At lines 7-8, it is unclear as to how the instrumentation piping mechanically averages the total and static pressure. At line 9, “said averaged total and static pressures” lacks antecedent basis. The claim as disclosed does not have any structural relationship among parts. At line 9 the term, “and/or” renders the claim vague and indefinite.

Claim 9: At line 1, the combination is not clear. The phrase, “Gas flow sensing element module isolation piping combination” is not clear. It is unclear as to the phrase, “gas flow sensing element module isolating piping”. At line 4, the isolation piping comprising is confusing. At lines 5-9 and 12, “said total pressure manifolds”, “said static pressure pitot tubes”, “said gas flow sensing element modules”, “the total and static pressure”, “said gas flow sensing element”, “said averaged total and static pressures” and “said pressure averaging piping” lack antecedent basis. At line 10, the term, “and/or” renders the claim vague and indefinite. The claim has no structural relationship among parts. The applicant is advised to thoroughly check the claims for 112-second paragraph issues and for the relationship of parts to better understand the invention since the claims are replete with 112-second paragraph issues.

Double Patenting

5. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

7. Claims 1-6 are rejected under the judicially created doctrine of double patenting over claims 1-20 of U. S. Patent No. 5,736,651 since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

The subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter, as follows: a high temperature gas flow sensing element comprising a housing having an inlet and an outlet forming a hollow interior, a total pressure sensing pitot tube array affixed within the housing traversing the interior cross sectional area, a static pressure sensing pitot tube affixed

Art Unit: 2855

within the housing and traversing the interior cross sectional area and exterior instrument taps for connection of the arrays to the differential pressure instrument.

Furthermore, there is no apparent reason why applicant was prevented from presenting claims corresponding to those of the instant application during prosecution of the application, which matured into a patent. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

8. Claims 7-10 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-20 of U.S. Patent No. 5,736,651. Although the conflicting claims are not identical, they are not patentably distinct from each other because providing a plurality of modules with a multiple of the total pressure and static pressure arrays disposed in the path of the flow would have been an obvious design choice in order to accommodate the entire cross sectional area of the conduit to which the module or modules is to be attached. A wider area of the conduit would be covered when a multiple of such modules are arranged with each other.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

10. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Brandt (4,297,900).

Art Unit: 2855

Brandt shows a gas flow sensing element (12), housing (14), total pressure sensing Pitot tube array (22), static pressure sensing pitot tube (30) and connected to the manifold (26).

Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

12. Claims 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brandt.

Brandt shows all the features of the instant invention except for the manifold comprising an elongated metal tube or a plurality of gas flow sensing elements arranged in a fashion to form a modular gas flow sensing element. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to form a connection tubing of an elongated form compared to a circular form since it is nothing more than an alternative for such elongation of the manifold to correspond to the shape of the module section. Furthermore, providing a series of individual flow sensing element sections to form a modular element would have been obvious design choice in order to determine the gas flow in a bigger and wider unit where a plurality of elements form a modular unit to fit in the cross sectional area of the conduit through which the medium flows.

Response to Amendment

13. Applicant's arguments filed 3/12/01 have been fully considered but they are not persuasive. The arguments that the Brandt reference do not teach the specifics of the limitations claimed in claim 1 is not persuasive since Brandt teaches the housing (12), a total pressure

Art Unit: 2855

sensing pitot tube array (22), a static pressure sensing pitot tube (30), and exterior instrument taps (36,38). The structure of the manifold is an inherent feature that is required to direct the pressure measurement external from the housing to the measuring unit. The specific structure of the instant invention is nothing more than an equivalent alternative of forming the manifold. As to the arguments related to the high temperature tubing connection, this limitation is nothing more than the base of requirement in the environment in which the device is to be used and operated.

Moreover, the double patenting and the drawing objections have not been met. The applicant filed a terminal disclaimer statement in the remarks. This terminal disclaimer is not in the form is supposed to be in.

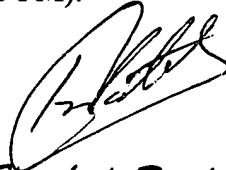
Conclusion

14. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Art Unit: 2855

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harshad Patel whose telephone number is (703) 305-4935. The examiner can normally be reached on M-Th (7:00 AM-5:30 PM).



Harshad Patel
Primary Examiner
Art Unit 2855

H. P.
June 12, 2001